

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

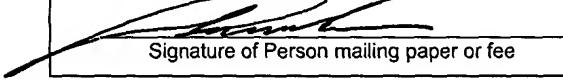
Date: July 25, 2003

Serial No.: NA

Filed: July 25, 2003

For: "SYSTEM ENABLING THE
ESTABLISHMENT OF A TELNET
CONNECTION TO A REMOTE
DEVICE NOT PROVIDED WITH A
MODEM"

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Group Art Unit: N/A

Examiner: N/A

Attorney Docket No.: 2002-0149

PRELIMINARY AMENDMENT

Honorable Commissioner of Patents and Trademarks
Washington D.C. 20231

Sir:

This Preliminary Amendment is being provided to amend the translation of the French Application No: 0210585 filed August 26, 2002 to correct grammar and typographical mistakes and to conform to US requirements. No new matter has been added.

In the Specification:

Please replace the referenced sentences with the following:

Page 1, lines 16-18

The Service Provider can generally gain access to this equipment via one of the network links or through a dial connection via PSTN or ISDN if such a connection is available on the equipment.

Page 1, lines 24-25

For a user to Telnet to a host or device requires the establishment of a connection through a network to this host or device.

Page 2, lines 23-25

When the router is not a managed router but under user control and management , there is no problem since the user can manage it either from the LAN side Ethernet port or the console port. But, when a service provider manages the router, it becomes more complex and expensive to use a low cost router as a result of the addition of an expensive modem.

Page 3, lines 6-7

These tools are very efficient but have several drawbacks, which prevent them from being used in this environment.

Page 3, lines 17-20

Accordingly, the main object of the invention is to provide a method and a system wherein a user workstation includes a Telnet proxy function enabling a Telnet connection between a Telnet client and a remote device not provided with a modem.

Page 3, lines 26-31 and Page 4, lines 1-2

The system comprises a data processing device provided with the proxy function and is connected to the PSTN and to the Telnet manageable device by the intermediary of a Local Area Network LAN, the data processing device includes a proxy means for completing a first Telnet connection with the help desk workstation through the PSTN and for establishing a second Telnet connection

with the Telnet manageable device upon receiving a request from the help desk workstation to gain Telnet access to the Telnet manageable device.

Page 4, lines 25-27

The main idea of the invention is to utilize a user workstation which is a data processing device as a modem to solve the security issue raised by access of a help desk workstation to the system of the customer.

Page 5, lines 22-27

If no modem is available on device 120, access to the device is then achieved through a data processing device 110 such as an intermediate host or PC on which Telnet proxy software is implemented. This proxy function is interfaced on one side to the modem port 105 connected to PSTN 130 and on the side to the port linked to LAN 125, which is connected to the device 120 in a preferred embodiment.

Page 6, lines 7-9

In that case, the proxy is not configured through the help desk workstation and is preconfigured to access its IP default gateway which is configured in the host IP stack through the LAN interface or through the serial COM port if it is not reachable via the LAN side.

Page 6, lines 29-31

It is also possible to define more than one IP address in the list, either to access the same device on another port if such interface exists or to gain access to another device when the first fails.

Page 7, lines 16-18

The device 120 sends a “reply message” 220 to Telnet Proxy 110 which checks, processes and translates back this message in a “reply” message 230 before sending it to the Standard Telnet client 100.

Page 7, lines 20-28

The Telnet proxy method for incoming messages from the Telnet client is now described with reference to Fig. 3. First, the system waits for a Telnet message from the help desk workstation (step 300) by scanning the incoming TCP/IP packets on the dial access. When a message arrives, the message is checked to determine whether it is received on port 23 associated with the Telnet protocol (step 302). If not, this means that the packet is for another task other than the Telnet proxy and the packet is forwarded to the host of the data processing device according a transparent mode (step 306). Note that another Telnet application cannot be used in parallel with the proxy function on the same interface.

Page 8, lines 13-18

In the [two] first two embodiments wherein the Telnet client is a legacy Telnet client, the connection request (step 312) is responsible for:

Getting the IP address of the device 120,

Getting automatically the IP address of LAN interface of device 110, and

Creating the Telnet connection between the workstation 100 and the device 110, and between the devices 110 and 120.

Page 8, lines 28-31 and Page 9, lines 1-2

When a message is received, it is checked to determine whether it is a Telnet command on port 23 as previously noted (step 420). If not, the message is rejected (step 415) and a feedback message is sent to the source. If it is a Telnet command, the command is processed (step 425) as described hereafter, and a new Telnet message is sent to the help desk workstation 100 (step 430).

Page 9, lines 19-20

Then, the modified Telnet message 550 is sent to workstation 100.